

**SKUNK TANK WASH
FCD GAGE ID# 4888**

STATION DESCRIPTION

LOCATION - The gage is located about 1/4 mile south of Desert Hills Drive along 7th Avenue. Latitude 33° 50' 23.6" North; Longitude 112° 04' 58.1" West. Located in S29 T6N R3E, in the New River SE 7.5-minute quadrangle.

ESTABLISHMENT - The gage was installed on March 2, 2006.

DRAINAGE AREA – 1.5 mi²

GAGE - The gage is a pressure transducer type instrument. The PT diaphragm is at gage height 0.50 feet, levels of March 30, 2006. The PT is located on the upstream (east) side of 7th Avenue.

There is no crest-stage gage at this site.

There is no staff gage at this site.

ZERO GAGE HEIGHT – Zero gage height is defined as the bottom of the left upstream culvert.

HISTORY – Gaging established on March 2, 2006. No previous gaging history at this location.

REFERENCE MARKS

RP-1 is a rebar stake located about 10 feet south of the station tube. Elevation 7.73 feet gage height, levels of March 30, 2006.

RP-2 is the top bolt holding the PT housing to the culvert headwall. Elevation 0.70 feet gage height, levels of March 30, 2006.

CHANNEL AND CONTROL - The channel at the gage approaches the gaged culvert from the northeast. The channel is forced at an angle through the culvert and under 7th Avenue. It then discharges back to the natural channel configuration downstream of 7th Avenue.

The control for the gage is the two-barrel culvert. Gaging is on the upstream side of the culvert. The culverts are identical 5-foot diameter corrugated steel pipes. Culvert

lengths are 54 feet. Culvert appears to have a positive slope, gaining about 0.15 feet over its length.

RATING - The current rating is Rating #1, dated March 2, 2006. The rating was developed from collected site data in an HY-8 culvert analysis model.

DISCHARGE MEASUREMENTS - Direct measurements could be made in the natural wash downstream from the culvert.

POINT OF ZERO FLOW - The PZF is at about 0.85 feet gage height.

FLOODS – The peak flood of record is 213 cfs, 6.10 feet gage height occurred on January 21, 2010.

REGULATION - None known.

DIVERSIONS - None known

ACCURACY - Fair

JUSTIFICATION - Monitor flows in support of the Desert Hills flood warning plan.

UPDATED - July 20, 2011
 D E Gardner